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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 5094.2-2018

**Industrial systems, installations and equipment and industrial
products -- Structuring principles and reference designations --
Part 2: Classification of objects and codes for classes**

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0 (zero) confusion.

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4.1 General

Foreword

GB/T 5094 "Industrial Systems, Devices and Equipment and Industrial Product Structure Principles and Reference Codes" are divided into the following two parts.

--- Part 1. Basic rules;

--- Part 2. Classification and classification of the project.

This part is the second part of GB/T 5094.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 5094.2-2003 "Industrial Systems, Devices and Equipment, and Industrial Product Structure Principles and Reference Codes"

Part 2. Classification and Classification of Projects. The main technical changes compared with GB/T 5094.2-2003 are as follows.

--- Chapter 4 added some of the content;

--- The original contents of Chapters 5 and 6 were merged, and some contents were added;

--- Removed the contents of Chapter 7.

This section uses the translation method equivalent to the IEC 81346-2:2009 "industrial systems, devices and equipment, and industrial product structure principles and

Refer to Code Part 2. Classification and Classification of Projects.

This part is proposed and managed by the National Electrical Information Structure

Document Compilation and Graphic Symbol Standardization Technical Committee (SAC/TC27).

This section drafted by. China Machine Productivity Promotion Center, China Aviation Planning and Design Research Institute Co., Ltd., Anhui Art Standard Information Technology

Co., Ltd., China Aerospace Science and Technology Defense Technology Research Institute, China Electronics Technology Group Corporation, the 14th Research Institute, China Building Standard Design Research

Research Institute Co., Ltd., Beijing Institute of Radio Measurement.

0.1 General

The purpose of this part of GB/T 5094 is to establish project classification tables and letter codes that can be used in various technical fields. Such as electricity, machinery and soil

Wood engineering and various branches such as energy, chemical industry, building technology, shipbuilding and ship technology. Letter code usage rules and establishing references

The code is based on GB/T 5094.1.

Appendix A of this section describes how to classify projects by purpose or task associated with a process.

Appendix B shows how to classify projects by their location in an infrastructure.

0.2 Basic requirements of this part

The following basic requirements are the basis for the mutual agreement of this part of the preparation of GB/T 5094.

Note. These basic requirements focus on the development of the alphabetic code classification system in this standard rather than its application. Therefore they are not norms relative to

Use the standard of the program.

- 1) The letter code should be based on a classification table.
- 2) The classification table is the definition of the entire project type (for example, the classification table of the functional type contains the definition of various functional types of the project).
- 3) The classification table should allow hierarchical classification of project types, ie sub-categories and special categories.

4) The letter code of a project should be independent of the actual location of the project in the system.

5) Different categories should be defined at each level of the classification table.

6) The classification of specific levels in the classification table should have a common basis (for example, the classification of items by color at a level is not

It should include classification of items by shape). But the level of each level can be different.

7) The letter code should indicate the type of item, not an aspect of the item.

8) The classification table should be allowed to expand to accommodate future developments and needs.

9) The classification table should be applicable to all technical fields, not just to a specific area.

10) Uniform letter codes should be available in all technical fields. The same project, regardless of the technical field in which it is used,

Letter code.

11) Projects that appear in any technical field should be represented by an alphabetic code if needed.

12) The classification table should reflect the actual application of the letter code.

13) The letter code should not be a mnemonic because the mnemonic cannot be uniformed in multiple parts of the classification table and in different languages.

14) The letter code is constructed using uppercase letters in the Latin alphabet, except for the letters I and O, as may be related to the number 1 (one) and

0 (zero) confusion.

15) Different classification tables should be allowed and the same project should be applied.

16) Items can be classified according to, for example, function, shape, color or material. The same project can be specified according to different classification tables

Letter code.

17) For projects using another project component of the same aspect, the letter code should be specified in the same classification table, as shown in Figure 1,

See Figure A.1.

18) If a new product is formed from products from different manufacturers, the components

of the product may be alphabetized according to different classification tables.

Code.

For items 1 of the direct composition of items 1, 3 and 4, the letter code should be given in the same classification table.

For items 2 and 6 that are directly composed of item 2, the letter code should be given in the same classification table.

For items 4 and 8 that are directly composed of item 4, the letter code should be given in the same classification table.

For items directly consisting of items 6, 9, 10, 11 and 12, the letter code should be given in the same classification table.

Direct composition items 13, 14, 15 and 16 of item 8 shall be given the letter code in the same classification table.

Figure 1 Composition of the project

Industrial systems, plants and equipment, and industrial products

Structural principle and reference code

Part 2. Classification and classification of the project

1 Scope

This part of GB/T 5094 specifies the classification of items by purpose or task and the letters representing the subcategories of the items in the reference code.

Code.

This section applies to projects in various technical fields, such as. electrical, mechanical, civil engineering and all industrial branches (such as energy, chemical workers)

Industry, construction engineering, shipbuilding and marine technology) and can be used in the design process of various technical disciplines.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 5094.1-2018 Industrial systems, devices and equipment and industrial product structure principles and reference code Part 1. Base